

STATEMENT OF BASIS (AI No. 155085)

for draft Louisiana Pollutant Discharge Elimination System permit No. **LA0123625** to discharge to waters of the State of Louisiana.

THE APPLICANT IS: Greene's Energy Group
Cherokee Services
Post Office Box 2008
Scott, LA 70583

ISSUING OFFICE: Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

PREPARED BY: Lisa Kemp

DATE PREPARED: March 10, 2008

1. PERMIT STATUS**A. Reason For Permit Action:**

First time issuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term.

B. NPDES permit - NPDES permit effective date: N/A
NPDES permit expiration date: N/A
EPA has not retained enforcement authority.

C. LPDES permits -
LPDES permit effective date: N/A
LPDES permit expiration date: N/A

D. Date Application Received: December 21, 2007

2. FACILITY INFORMATION**A. FACILITY TYPE/ACTIVITY - Oilfield Service and Rental**

According to the application, this facility, which does not produce any products, serves as an oilfield service facility specializing in oilfield rental tools and maintenance. Operations include washing and maintenance of oilfield service equipment. Disposal/recycling activities are conducted by Deep South in Broussard, Louisiana.

B. FEE RATE

1. Fee Rating Facility Type: minor
2. Complexity Type: II*
3. Wastewater Type: II
4. SIC code: 1389, 7359

*The points for this facility have been BPJ'd to 0 because of the low volume of wastewater discharged.

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C. LOCATION - at 1113 Ridge Road, in Duson, Lafayette Parish
 Latitude 30° 10' 50", Longitude 92° 07' 18"

3. OUTFALL INFORMATION

Outfall 001

Discharge Type: wash wastewater
 Treatment: wash water is treated with a flocking agent to allow solids to settle out, then flows through MR10K round clay canisters and then through bag filters
 Location: at the point of discharge on the northeast corner of the facility, just east of Outfall 002
 Flow: 2800 gpd
 Discharge Route: Coulee Ile Des Cannes via local drainage

Outfall 002

Discharge Type: treated sanitary wastewater
 Treatment: mechanical treatment plant
 Location: at the point of discharge from the sewage treatment plant, on the northeast corner of the facility, just west of Outfall 001
 Flow: 130 gpd
 Discharge Route: Coulee Ile Des Cannes via local drainage

Other Discharges

Stormwater runoff will be addressed by Stormwater Pollution Prevention Plan requirements (see Narrative Requirements of the Draft Permit).

4. RECEIVING WATERS

STREAM - Vermilion River - From New Flanders (Amabassador Caffery) Bridge, LA. Hwy 3073 to Intracoastal Waterway

BASIN AND SEGMENT - Vermilion-Tecche River Basin, Segment 060802

DESIGNATED USES - a. primary contact recreation
 b. secondary contact recreation
 c. propagation of fish and wildlife
 f. agriculture

5. TMDL STATUS

Subsegment 060802, Vermilion River - From New Flanders (Amabassador Caffery) Bridge, LA. Hwy 3073 to Intracoastal Waterway, is not listed on LDEQ's Final 2006 303(d) list as impaired. However, subsegment 060802 was previously listed as impaired for Phosphorus, Nitrogen (Nitrate + Nitrite as N), organic enrichment/low DO, pathogen indicators, suspended solids/turbidity/siltation, and Carbofuran, for which the below TMDLs have been developed. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to

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maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional TMDLs and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDLs for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

The following TMDLs have been established for subsegment 060802:

The Mermentau River and Vermilion-Teche River Basins TMDL for the pesticide Carbofuran was finalized on March 21, 2002. Pesticides, which can be attributed to agricultural runoff, are not considered to be discharged from this facility.

The wash wastewater and treated sanitary wastewater discharges from this facility have the potential to discharge pollutants that may contribute to the suspended solids impairment of the receiving stream. As per the *TMDL for TSS, Turbidity, and Siltation for the 15 Subsegments in the Vermilion River Basin*, point source loads are so small as to be insignificant, and because effective policies are in place to limit TSS discharges, no specific reductions from point sources are required. TSS limits included in the permit will address this impairment.

The treated sanitary wastewater from this facility has the potential to discharge fecal coliform (pathogen indicators). As per the *Vermilion River Fecal Coliform TMDL* (April 5, 2001), "... there will be no change in permit requirements based upon a wasteload allocation resulting from this TMDL." Standard Fecal Coliform limits have been included in the permit that will address the potential for further impairment of this waterbody.

The DEQ TMDL for Vermilion River Oxygen Demand was incorporated into the EPA TMDL *Vermilion River Dissolved Oxygen and Nitrogen TMDL* (see Federal Register Notice: Volume 66, Number 66, Pages 18087-18089, 04/05/2001). This TMDL did not provide for more stringent limits than those already in place by the Department. Standard BOD₅ and COD limits have been included in the permit and will adequately address the potential to contribute to the organic enrichment/low DO and Nitrogen impairments.

As per the February 29, 2000 Delist (Federal Register Notice: Vol. 65, Num. 173, pages 54032-54034, 9/6/2000), assessment of new data and information shows this segment is meeting water quality standards for Phosphorus, therefore requirements for Total Phosphorus will not be placed in this permit.

LAC 33:IX.2707.D.1.f.iii allows the establishment of effluent limitations based on an indicator parameter for the pollutant of concern. LDEQ's consistent approach to controlling nutrients (Phosphorus, Nitrogen) in similar discharges where the WQMP does not otherwise require specific nutrient limitations is achieved by limiting the discharge of oxygen-demanding substances through BOD₅ and COD limitations. Compliance with the BOD₅ and COD limitations as the indicator parameters will result in the control of nutrients from the discharges of treated sanitary wastewater and wash wastewater sufficient to attain and maintain the applicable water quality standard. Effluent monitoring of the indicator parameters as conducted by the permittee in accordance with Part I of the permit in addition to LDEQ's ambient water quality monitoring program will allow for further evaluation by the Department to determine the effectiveness of the limitation. The reopener clause located in Part II of the final permit allows the Department to modify or revoke and reissue the permit if the limitations as set on the indicator parameter are shown to no longer attain and maintain applicable water quality standards.

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6. PROPOSED EFFLUENT LIMITS

BASIS - See Rationale, Page 6

No changes were made since this is an initial permit for this facility.

7. COMPLIANCE HISTORY/COMMENTS

- A. OEC – There are no open, appealed, or pending OEC enforcement actions as of February 25, 2008.
- B. DMR Review/Excursions – No DMRs are on file as this is an initial permit for this facility.
- C. Inspections – An inspection performed on December 5, 2007 revealed that the facility was discharging treated sanitary wastewater and light industrial wastewater to local drainage then to the Vermilion River without an LPDES permit. The facility was issued a Notice of Deficiency (NOD) on December 5, 2007. The facility submitted a permit application as required by the NOD. On January 10, 2008, LDEQ issued the facility a letter stating that the permit application was determined to be administratively complete. A Deficiency Clear letter was issued by LDEQ on January 30, 2008.

8. ENDANGERED SPECIES

The receiving waterbody, Subsegment 060802 of the Vermilion-Teche River Basin is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 24, 2007 from Boggs (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat. Therefore, the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat.

9. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

10. TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a permit for the discharge described in the application.

11. PUBLIC NOTICES

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written

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comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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Rationale for Greene's Energy Group

1. Outfall 001 - wash wastewater (estimated flow is 2800 gpd)

<u>Pollutant</u>	<u>Limitation</u> Mo. Avg: Daily Max (mg/l)	<u>Reference</u>
Flow (gpd)	Report: Report	LAC 33:IX.2707.1.1.b
COD	200 : 300	LAG480000
TSS	--- : 45	LAG480000
Oil & Grease	--- : 15	LAG480000
Visible Sheen	---: No Presence	LAG480000
pH – Allowable Range (Standard Units)	6.0 : 9.0 (min) (max)	LAG480000
Soaps and/or Detergents	Report : ---	LAG480000

Treatment: wash water is treated with a flocking agent to allow solids to settle out, then flows through MR10K round clay canisters and then through bag filters

Monitoring Frequency: 1/day for visible sheen; 1/ 3 months for all other parameters

Limits Justification: Flow monitoring is based on LAC 33:IX.2707.1.1.b. All other limits are based on the Light Commercial Facilities, LPDES General Permit LAG480000, effective August 1, 2001 – Schedule B.

2. Outfall 002 – treated sanitary wastewater (estimated flow is 130 gpd)

<u>Pollutant</u>	<u>Limitation</u> Mo. Avg: Weekly Average (mg/l)	<u>Reference</u>
Flow	--- : Report	LAG530000
BOD ₅	--- : 45	LAG530000
TSS	--- : 45	LAG530000
Fecal Coliform (colonies/100 ml)	--- : 400	LAG530000
pH Allowable Range (Standard Units)	6.0 : 9.0 (min) (max)	LAG530000

Treatment: mechanical treatment plant

Monitoring Frequency: 1/ 6 months

Limits Justification: Limits are based on the Class I Sanitary Discharge General Permit – LAG530000.

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NOTE

For outfalls containing concentration limits, the usage of concentration limits is based on BPJ for similar outfalls since the flow is variable and estimated.

STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENT

A SWP3 is included in the permit because in accordance with LAC 33:IX.2511.A.1, storm water discharges shall not be required to obtain an LPDES permit "... except... discharges associated with industrial activity." In accordance with LAC 33:IX.2511.B.14.a-k, facilities classified as SIC code 1389 are considered to have storm water discharges associated with industrial activity.

The SWP3 shall be prepared, implemented, and maintained within (6) months of the effective date of the final permit. The plan should identify potential sources of storm water pollution and ensure the implementation of practices to prevent and reduce pollutants in the storm water discharges associated with industrial activity at the facility (see Narrative Requirements for the AI).